

CLAIMS

1. (amended) A suspension system for a vehicle,
comprising:

5 a motor that is disposed inboard with respect to
a knuckle for driving the wheel;

a first suspension that is provided between the
wheel and a vehicle body for elastically supporting the
wheel of the vehicle with respect to the vehicle body;

10 a second suspension that is provided between the
motor and a vehicle body for elastically supporting the
motor with respect to the vehicle body; and

a power transferring mechanism that is provided
between a rotating shaft of the motor and a wheel shaft of
15 the wheel for transferring power from the motor to the
wheel while permitting relative movement of the motor with
respect to the wheel.

2. The suspension system as claimed in claim 1,
20 wherein the second suspension includes a spring element
and a damper element.

3. (amended) A suspension system for a vehicle,
comprising:

25 a motor for driving a wheel of the vehicle;

a first suspension for supporting the wheel of
the vehicle with respect to a vehicle body;

a second suspension for elastically supporting
the motor with respect to the vehicle body; and

30 a power transferring mechanism for transferring
power from the motor to the wheel while permitting
relative movement of the motor with respect to the wheel,
wherein a damper element of the first suspension and a

-20-

damper element of the second suspension are interconnected via a fluid passage such that the motor and the wheel move in opposite phases.

- 5 4. (amended) A suspension system for a vehicle,
comprising:
- a motor for driving a wheel of the vehicle;
 - a first suspension for supporting the wheel of
the vehicle with respect to a vehicle body;
 - 10 a second suspension for elastically supporting
the motor with respect to the vehicle body; and
 - a power transferring mechanism for transferring
power from the motor to the wheel while permitting
relative movement of the motor with respect to the wheel,
15 wherein damper elements of the second suspensions on the
both sides of the vehicle are interconnected via a fluid
passage.
- 20 5. (amended) A suspension system for a vehicle,
comprising:
- a motor that is disposed inboard with respect to
a knuckle for driving the wheel;
 - a first suspension that is provided between the
motor and a vehicle body for supporting the motor with
25 respect to the vehicle body such that the motor can move
in up-and-down directions with respect to the vehicle
body;
 - a second suspension that is provided between the
wheel and the motor for supporting the wheel with respect
30 to the motor such that the wheel can move in up-and-down
directions with respect the motor; and
 - a power transferring mechanism that is provided
between a rotating shaft of the motor and a wheel shaft of

-20/1-

the wheel for transferring power from the motor to the wheel while permitting relative movement of the motor with respect to the wheel.

5 6. The suspension system as claimed in claim 5, wherein the first suspension includes a spring element and a damper element and the second suspension includes another spring element and another damper element.

10 7. The suspension system as claimed in claim 5, wherein the first suspension includes a leaf spring.